

इंटरनेट

मानक

### Disclosure to Promote the Right To Information

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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 8579 (1977): Purchaser's data sheet for crystallizers  
[MED 17: Chemical Engineering Plants and Related Equipment]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”



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## Indian Standard

## PURCHASER'S DATA SHEET FOR CRYSTALLIZERS

**1. Scope** — Covers the technical data to be supplied by a purchaser while placing an enquiry or order to a supplier for the purchase of a crystallizer.

**2. Purchaser's Data Sheet**

## PURCHASER'S DATA SHEET FOR CRYSTALLIZERS

- 1) Nature and analysis of liquor to be crystallized ( including impurities ) .....
- 2) Properties of liquor fed:
  - a) Density ..... kg/m<sup>3</sup>
  - b) Specific heat ..... J/(kg. °C)
  - c) Viscosity ..... cP
  - d) pH .....
  - e) Boiling point elevation ..... °C
  - f) Temperature ..... °C
- 3) Final viscosity of liquor ..... cP
- 4) Specific heat of solution ..... J/(kg. °C)
- 5) Foaming and caking tendency:
  - a) Feed .....
  - b) Product .....
- 6) Solubility data .....

**Note** — If solubility data is not available, samples of feed liquor ( 2 containers of 250 ml capacity ) may be sent.
- 7) Output required ( or quantity of liquor to be dealt with ) ..... kg/batch or kg/h
- 8) Temperature of final product ..... °C
- 9) Type of crystallization ( batch/continuous ) .....
- 10) Agitation required ( Yes/No ) .....
  - a) If yes, type of agitation .....
- 11) Heat removal rate and means of control .....
- 12) Size of crystals required ( Mention sieve analysis with mesh standards ) .....
- 13) The number of molecules of water of crystallization .....
- 14) Concentration, at the initial temperature, of the liquor to be crystallized .....
- 15) Initial temperature of crystallization ..... °C
- 16) Specific heat of crystals ..... J/(kg. °C)
- 17) Heat of crystallization per kilogram crystal ..... J
- 18) Seed crystals necessary ( Yes/No ) .....
- 19) Reheating required ( Yes/No ) .....
- 20) Cooling medium .....
- 21) Temperature of cooling medium ..... °C

( Continued )

Adopted 26 September 1977

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PURCHASER'S DATA SHEET FOR CRYSTALLIZERS — *Contd*

- 22) Quality and source of cooling medium .....
- 23) Preferred materials of construction, if any .....
- 24) Normal atmospheric temperature conditions ..... °C
- 25) Space available for installation:
- a) Length ..... m                      b) Breadth ..... m
- c) Height ..... m
- 26) Electric supply:
- a) Volts .....                      b) Phase .....
- c) Hertz .....                      d) Direct current ..... volts
- 27) Steam:
- a) Pressure ..... kPa                      b) Temperature ..... °C
- c) Source ( Whether pass out from turbines or other equipment ) .....
- 28) Height of factory above sea level ..... m
- 29) General description of local conditions .....
- 30) Any special requirements .....

Remarks

## EXPLANATORY NOTE

The information given by a supplier according to this data sheet will enable a manufacturer or a supplier to assess the exact requirements of the purchaser and to recommend to him the most suitable type of equipment.

International system ( SI ) of units has been used in the standard. The relationship of these units to other units are given below for guidance:

$$1 \text{ pascal ( Pa )} = 1 \text{ newton/square metre ( N/m}^2 \text{ )}$$

$$= 0.102 \text{ kgf/m}^2$$